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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

MINISTRY OF FOREIGN TRADE & SUPPLY

(Department of Foreign Trade)

NOTIFICATION

New Delhi, the 5th August 1969

S.O. 3131.—Whereas the Central Government, in exercise of the powers conferred by section 6 of the Export (Quality Control and Inspection) Act, 1963 (22 of 1963), is of opinion that it is necessary or expedient to amend the notification of the Government of India in the late Ministry of Commerce No. S.O. 1004, dated the 23rd March, 1967, in the manner specified below, for the development of the export trade of India, and has forwarded the proposals in that behalf to the Export Inspection Council, as required by sub-rule (2) of rule 11 of the Export (Quality Control and Inspection) Rules, 1964;

Now, therefore, in pursuance of the said sub-rule, the Central Government hereby publishes the said proposals for the information of the public likely to be affected thereby.

2. Notice is hereby given that any person desiring to forward any objections or suggestions with respect to the said proposals may forward the same within thirty days of the date of publication of this notification in the Official Gazette to the Export Inspection Council, 'Word Trade Centre', 14/1B, Ezra Street (7th floor), Calcutta-1.

## Proposals

The notification of the Government of India in the late Ministry of Commerce No. S.O. 1004, dated the 23rd March, 1967 shall be amended as follows, namely—

In the said notification—

(i) in Annexure I, after serial No. 12 and the entries relating thereto, the following serial number and the entry shall be inserted, namely:—

"13. Automotive Hydraulic Brake Hose.;"

(ii) in Annexure III, after the heading "4. Specification for Feed Hose (Pipe) for Locomotives", and the entries thereunder, the following heading and the entries shall be inserted, namely:—

"5. Specification for Automotive Hydraulic Brake Hose Requirements.—The hose shall conform to the requirements specified below.

(A) For 3.18 mm (1/8") hose

(1) Construction test:

The time required for the gauge plug of 2.20 mm. (0.085") diameter to drop of its own through a distance of 7.62 cms. (3") into the hose assembly shall not exceed 5 seconds.

(2) Expansion test:

The maximum expansion of any of the hose assemblies when tested shall not exceed the following values:—

Freelength in cm.	Maximum expansion, CC	
	70.31 kg./cm <sup>2</sup> (1000 psi)	105.46 kg./cm <sup>2</sup> (1500 psi)
	cm.	cm.
21.59 (8-1/2") and under	1.29 (0.48")	1.52 (0.60")
22.86 (9")	1.29 (0.51")	1.52 (0.60")
25.40 (10")	1.42 (0.56")	1.70 (0.67")
27.94 (11")	1.54 (0.61")	1.85 (0.73")
30.48 (12")	1.67 (0.66")	2.00 (0.79")
33.02 (13")	1.82 (0.72")	2.15 (0.85")
35.56 (14")	1.95 (0.77")	2.31 (0.91")
38.10 (15")	2.08 (0.82")	2.46 (0.97")
40.64 (16")	2.20 (0.87")	2.64 (1.04")
43.18 (17")	2.33 (0.92")	2.79 (1.10")
45.72 (18")	2.48 (0.98")	2.94 (1.16")
48.26 (19")	2.61 (1.03")	3.09 (1.22")
50.80 (20")	2.74 (1.08")	3.27 (1.29")

(3) Burst test

When tested under hydraulic pressure, each sample of hose shall withstand a pressure of 260 kg./cm<sup>2</sup> (4000 psi) for 2 minutes. The pressure shall then be increased at a rate of 1750 (+700) kg./cm<sup>2</sup> [25000 (+10000) lbs. per square inch] per minute until burst occurs. The minimum bursting strength for any sample shall be 350 kg./cm<sup>2</sup> (5000 lbs. per square inch).

(4) Whip test

The minimum life of any one of the sample hose assemblies with free length ranging from 20.32 to 60.96 cm. (8 to 24 inches) run continuously on a suitable flexing machine shall be 35 hours.

(5) Tensile test

When the hose assembly is fixed in the testing machine and pulled at a speed of approximately 2.54 cm. (1 inch) per minute it shall withstand a minimum pull of 150 kgs. (325 lbs.) without the end fittings pulling off or rupture of the hose.

(6) Cold test

The hose assembly shall be conditioned in a cold box in straight position at —53.9°C. to —56.7°C. (—65°F to —70°F) for 72 hours. After conditioning and without removal from the cold box, the hose shall be bent around a mandrel having a diameter of 7.62 cm. (3"). The hose shall not crack or break.

(7) *Salt—spray test*

The hose assembly and connections shall withstand 24 hours exposure to salt spray test.

(8) *100% pressure test*

Before shipment by the exporter, each complete hose assembly shall be given a pressure test, using air or water as the pressure medium. The test pressure shall be 100 to 125 kg. per sq. cm. (1400 to 1800 lbs. per sq. cm.). The pressure shall be held for not less than 10 or more than 25 seconds. Hose assemblies showing leaks under this test shall be rejected.

(B) 4.761 mm. (3/16") Hose.

1. *Constriction test*

The time required for the gauge plug of 3.30 mm. (0.135") diameter to drop of its own through a distance of 7.62 mm. (3") into the hose assembly shall not exceed 5 seconds.

2. *Expansion test*

The maximum expansion of any of the hose assemblies when tested shall not exceed the following values:—

Freelength in cm.	Maximum expansion, cc. 105.46 g/cm <sup>3</sup>	
	70.31 kg./cm <sup>2</sup> 1000 psi)	(1500 psi)
	cm.	cm.
0" to 8" inclusive	1.49 (0.59")	1.80 (0.71")
22.86 (9")	1.67 (0.66")	2.00 (0.79")
25.40 (10")	1.85 (0.73")	2.20 (0.87")
27.94 (11")	2.03 (0.80")	2.41 (0.95")
30.48 (12")	2.18 (0.86")	2.59 (1.02")
33.02 (13")	2.36 (0.93")	2.79 (1.10")
35.56 (14")	2.54 (1.00")	2.99 (1.18")
38.10 (15")	2.71 (1.07")	3.20 (1.26")
40.64 (16")	2.87 (1.13")	3.40 (1.34")
43.18 (17")	3.04 (1.20")	3.60 (1.42")
45.72 (18")	3.22 (1.27")	3.81 (1.50")
48.26 (19")	3.40 (1.34")	4.02 (1.58")
50.80 (20")	3.78 (1.49")	4.19 (1.65")

3. *Burst test*

When tested under hydraulic pressure, each sample of hose shall withstand a pressure of 210 kg./cm<sup>2</sup> (3000 psi) for 2 min. The pressure shall then be increased at a rate of 1750.67 (—700.07) kg./cm<sup>2</sup> [25,000 (plus or minus 10,000 lbs.) per sq. inch] per min. until burst occurs. The minimum bursting strength for any sample shall be 320 kg./cm<sup>2</sup> (4500 lbs. per sq. inch).

4. *Whip test*

The minimum life of any one of the sample hose assemblies with free lengths ranging from 20.32 to 38.1 cms. (8 to 15½ inches) run continuously on the flexing machine shall be 35 hours.

5. *Tensile Test*

When the hose assembly is fixed in the testing machine and pulled at a speed of approximately 2.54 cms. (1 inch) per minute, it shall withstand a minimum pull of 150 kgs. (325 lbs.) without the end fittings pulling off or rupture of the hose.

6. *Cold test*

The hose assembly shall be conditioned in a cold box in straight position at —53.9°C to —56.7°C (—65°F to 70°F) for 72 hours. After conditioning and without removal from the cold box, the hose shall be bent around a mandrel having a diameter of 8.89 cms. (3½ inches). The hose shall not crack or break.

7. *Salt spray test*

The hose assembly and connections shall withstand 24 hours exposure to salt spray when suitably tested.

## 8. 100% pressure test

Before shipment by the exporter, each complete hose assembly shall be given a pressure test using air or water as the pressure medium. The test pressure shall be 100 to 125 kg./cm<sup>2</sup> (1400 to 1800 lbs. per sq. inch). The pressure shall be held for not less than 10 seconds or more than 25 seconds. Hose assemblies showing leaks under this test shall be rejected”.

[No. 60(127)/65-Exp. Insp.]

A. C. BANERJEE, Jt. Secy.